

# FortiRPS 100

# Register for Support

Register your Fortinet product to receive:

- Technical Support
- New product features
- Protection from new threats

Vous devez enregistrer le produit pour recevoir:

- Support technique
- Nouvelles fonctionnalités du produit
- Protection contre de nouvelles menaces

La reistrazione ti permette di usufruire di:

- Supporto Tecnico
- Nuove funzionalita
- Protezione dalle ultime minacce

Debe registrar el producto para recibir:

- Apoyo técnico
- Nuevas funcionalidades del producto
- Protección contra ataques

## 登録のお願い

本日、フォーティネット製品の登録をしてください。

登録すると次のメリットがあります。

テクニカルサポート・新機能の追加・新しい脅威への防御

## 请马上注册

您的飞塔产品

您在注册以后才能得到技术支持、新产品特点信息、最新威胁防护



October 23, 2017

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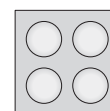
# Box Includes



FortiRPS 100



QuickStart Guide



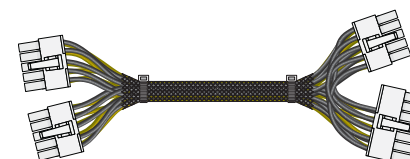
4 Rubber Feet



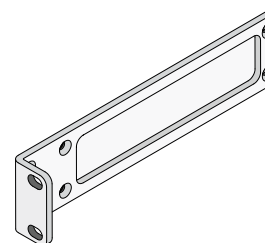
2 Power Cables



12 Bracket Screws



4 DC Power Cables



2 Rack-Mount Brackets

# 1 Technical Specifications

The FortiRPS 100 is an external power supply that provides redundant power to Fortinet devices should their internal power supply fail. The FortiRPS 100 supports up to four Fortinet units simultaneously, supplying up to a total of 552W.

Supported Model	Input Rating	FortiRPS Connection	Device Connection
FortiGate 100E	12V, 5A	2x5 DC output	2x7 connector
FortiGate 100EF	12V, 5A	2x5 DC output	2x7 connector
FortiGate 101E	12V, 5A	2x5 DC output	2x7 connector
FortiGate 140E	12V, 8.3A	2x5 DC output	2x7 connector
FortiGate 200B	12V, 16A	Two 2x5 DC outputs*	2x5 connector
FortiGate 310B	12V, 11.5A	2x5 DC output	2x5 connector
FortiGate 300C	12V, 11.5A	2x5 DC output	2x5 connector
FortiGate 200D	12V, 12.5A	Two 2x5 DC outputs*	2x5 connector
FortiGate 240D	12V, 12.5A	Two 2x5 DC outputs*	2x5 connector
FortiGate 300D	12V, 16.5A	Two 2x5 DC outputs*	2x7 connector
FortiGate 400D	12V, 17A	Two 2x5 DC outputs*	2x7 connector
FortiGate 500D	12V, 17A	Two 2x5 DC outputs*	2x7 connector
FortiGate 600D	12V, 17A	Two 2x5 DC outputs*	2x7 connector
FortiDDoS 200B	12V, 22A	Two 2x5 DC outputs*	2x7 connector
FortiDDoS 400B	12V, 22A	Two 2x5 DC outputs*	2x7 connector
FortiDDoS 600B	12V, 23A	Two 2x5 DC outputs*	2x7 connector
FortiDDoS 800B	12V, 23A	Two 2x5 DC outputs*	2x7 connector
FortiHypervisor 500D	12V, 17A	Two 2x5 DC outputs*	2x7 connector
FortiSwitch 348B	12V, 5.6A	2x5 DC output	2x5 connector
FortiSwitch 448B	12V, 5.7A	2x5 DC output	2x5 connector

\* When using both 2x5 connectors to connect a single device to the FortiRPS, both connectors must be connected to the same DC output. For example, if one of the connectors is connected to DC output 1-1, the other must be connected to DC output 1-2.



**Power 1 & 2**

- Green: The power supply is supplying power
- Off: The power supply is not supplying power

**AC Power Input 2**

100-240V AC, 50-60Hz, 5-2.5A

**AC Power Input 1**

100-240V AC, 50-60Hz, 5-2.5A



**DC Output 1**

2x5 DC outputs 1-1 and 1-2  
Powered by AC power input 1

**DC Output 2**

2x5 DC outputs 2-1 and 2-2  
Powered by AC power input 2



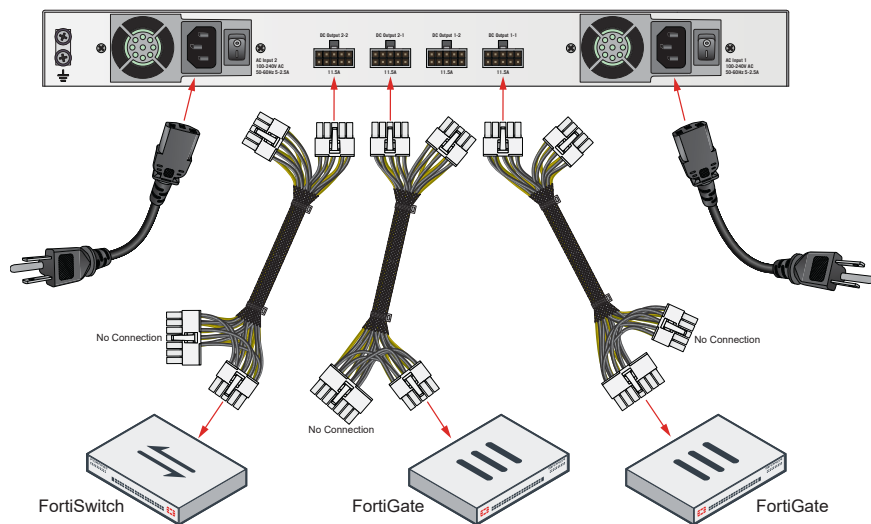
## 2 Connections

The FortiRPS 100 redundant power supply unit supports up to four Fortinet devices. For units that require more current, such as the FortiGate 200B or FortiDDoS 400B, two devices can be connected.

**Note:** Each AC power cable should be connected to a different power source.

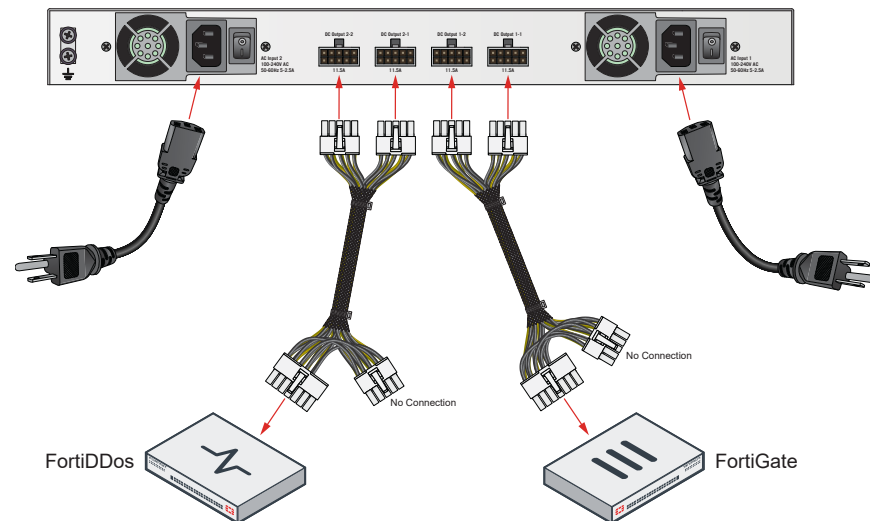
**Caution:** Do not connect a device to a DC port on the RPS while that port is powered.

For units that require 11.5A or less:



1. Find the DC cable end that has two 2x5 DC connectors and insert one connector into one of the DC outputs on the FortiRPS device.
2. Connect the other end of the DC cable to the device using the 2x5 connector.
3. Connect one of the provided AC power cables to the FortiRPS unit's AC power connection that correspond to the DC output that is being used.
4. If you are connecting multiple devices to the FortiRPS and using DC outputs 1 and 2, connect the second AC power cable to the FortiRPS device as well.
5. Plug the AC power cables into grounded electrical outlets or separate power sources, such as uninterruptible power supplies (UPS) or power distribution units (PDU), then turn on both power switches on the back of the FortiRPS unit.

For units that require more than 11.5A:



1. Find the DC cable end that has two 2x5 DC connectors. Insert the 2x5 connectors into either both DC output 1 or DC output 2 interfaces on the FortiRPS device.
2. Connect the 2x7 or 2x5 connector to the device.
3. Connect the provided AC power cables to both the FortiRPS unit's AC power connections.
4. Plug the AC power cables into separate, grounded electrical outlets or power sources, such as uninterruptible power supplies (UPS) or power distribution units (PDU), then turn on both power switches on the back of the FortiRPS unit.

**Caution:** Please consult a licensed electrician prior to connecting this product to a DC power supply source. Hiring a licensed electrician to perform all connections is recommended.

**Caution:** Consideration must be given to the connection of equipment to the supply circuit, and the effect that overloading the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

**Note:** Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit, such as through a power strip.

### 3 Installation

The FortiRPS unit can be placed on any [flat surface](#), or mounted in any standard [19 inch rack](#) unit with the provided rack-mount brackets and screws.

*Please read "Cautions and Warnings" prior to installing your device.*

#### Caution:

Electrostatic discharge (ESD) can damage your Fortinet equipment.

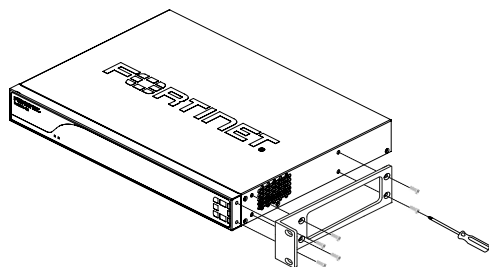
Do not place heavy objects on the unit.

To avoid personal injury or damage to the unit, it is recommended that two or more people install the unit into the rack.

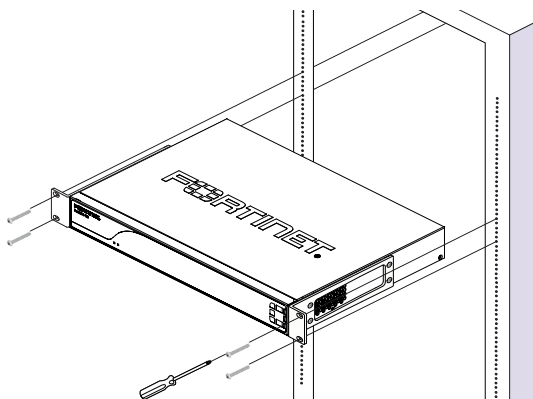
**Note:** Each power cable should be connected to a different power source. In this way, if one power source fails, the other may still be operational.

#### To install the FortiRPS unit into a rack

1. Ensure that the FortiRPS unit is placed on a stable surface prior to [rack-mount](#) installation.
2. Attach the provided [rack-mount brackets](#) to the sides of the unit using the provided [bracket screws](#).
  - a. If you are installing the unit into a [four-post rack](#), attach the [rack-mount brackets](#) with the [handles](#) aligned with the [front](#) of the FortiRPS unit.



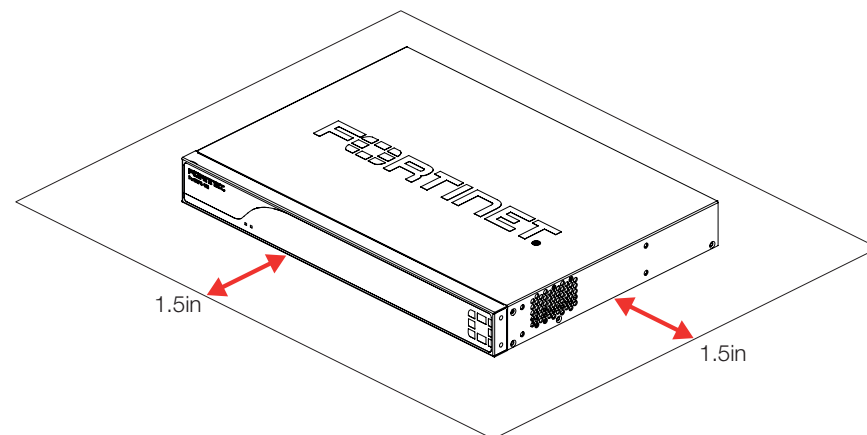
- b. If you are installing the unit into a [two-post rack](#), attach the [rack-mount brackets](#) with the [handles](#) aligned with the [middle](#) of the FortiRPS unit.
3. Position the FortiRPS unit in the [rack](#). Ensure there is enough room around the unit to allow for sufficient air flow.



4. Line up the [rack-mount bracket holes](#) to the [holes on the rack](#) and ensure that the FortiRPS unit is [level](#).
5. Finger tighten [four rack-mount screws](#) to attach the unit to the [rack](#).
6. Verify that the spacing around the FortiRPS unit conforms to requirements and that the unit is [level](#), then tighten the [rack-mount screws](#) with an appropriate [screwdriver](#).
7. Plug the provided [power cables](#) into the rear of the unit, and then into [grounded electrical outlets](#) or separate power sources, such as [uninterruptible power supplies \(UPS\)](#) or [power distribution units \(PDU\)](#).

#### To install the unit on a flat surface

1. Ensure that the surface onto which the FortiRPS unit to be installed is clean, level, and stable and that there is at least [1.5in \(3.8cm\)](#) of clearance on all sides to allow for adequate airflow.
2. Attach the provided [rubber feet](#) to the bottom of the FortiRPS unit.
3. Place the unit in the designated location.
4. Verify that the spacing around the FortiRPS unit conforms to requirements and that the unit is [level](#).



5. Plug the provided [power cables](#) into the rear of the unit, and then into [grounded electrical outlets](#) or separate power sources, such as [uninterruptible power supplies \(UPS\)](#) or [power distribution units \(PDU\)](#).

## Cautions and Warnings

### Environmental Specifications

Ambient operating temperature: 0C to 40C

Rack Mount Instructions - The following or similar rack-mount instructions are included with the installation instructions:

Instructions de montage en rack - Les instructions de montage en rack suivantes ou similaires sont incluses avec les instructions d'installation:

Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.  
Température ambiante élevée – S'il est installé dans un rack fermé ou à unités multiples, la température ambiante de fonctionnement de l'environnement du rack peut être supérieure à la température ambiante de la pièce. Par conséquent, il est important d'installer le matériel dans un environnement respectant la température ambiante maximale (Tma) stipulée par le fabricant.

Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.  
Ventilation réduite – Installation de l'équipement dans un rack doit être telle que la quantité de flux d'air nécessaire au bon fonctionnement de l'équipement n'est pas compromise.

Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.  
Chargement Mécanique – Montage de l'équipement dans le rack doit être telle qu'une situation dangereuse n'est pas liée à un chargement mécanique inégal.

Circuit Overloading - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.  
Surtension – Il convient de prendre l'ensemble des précautions nécessaires lors du branchement de l'équipement au circuit d'alimentation et être particulièrement attentif aux effets de la suralimentation sur le dispositif assurant une protection contre les courts-circuits et le câblage. Ainsi, il est recommandé de tenir compte du numéro d'identification de l'équipement.

Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).  
Fiabilité de la mise à la terre- Fiabilité de la mise à la terre de l'équipement monté en rack doit être maintenue. Une attention particulière devrait être accordée aux connexions d'alimentation autres que les connexions directes au circuit de dérivation (par exemple de l'utilisation de bandes de puissance).

*Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude).*

*Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).*

### Safety

**Warning:** Equipment intended for installation in Restricted Access Location.  
**Avertissement:** Le matériel est conçu pour être installé dans un endroit où l'accès est restreint.

## Regulatory Compliance

### Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:  
(1) this device may not cause harmful interference, and  
(2) this device must accept any interference received; including interference that may cause undesired operation.  
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

**WARNING:** Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

CAN ICES-3 (A) / NMB-3 (A)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

### European Conformity (CE) - EU

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



### Product Safety Electrical Appliance & Material (PSE) – Japan

日本では電気用品安全法(PSE)の規定により、同梱している電源コードは本製品の専用電源コードとして利用し、他の製品に使用しないでください。  
Authorized personnel is a staff who have been instructed about the reasons for the restrictions applied to the location and about any precautions that shall be taken.  
Installation, grounding, servicing, and repair of the equipment (FortiRPS 100) are only allowed to be done by service personnel. The operation of the product is only allowed for authorized personnel.  
Access to the restricted location is only possible through the use of a tool or lock and key. This should be controlled by the authority responsible for the location.

### Voluntary Control Council for Interference (VCCI) – Japan

この装置は、クラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。V C C I – A

### China

此为A级产品，在生活环境中，该产品可能会造成无线电干扰。这种情况下，可能需要用户对其采取切实可行的措施。

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### Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

The presence conditions of the restricted substance (BSMI RoHS table) are available at the link below: <https://www.fortinet.com/bsmi>

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